

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCES United States Patent and Trademark Office Althesis of MMMSSI (SEE & FIGTES IS AND TRADEMARKS Washington Door 2023) www.usprocow

APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	A FIORNEY DOCKET NO	CONFIRMATION NO.
10 067,435	02.04.2002	George W. Hempel	TYCO-009XX	7560
7*	90 02 24 2003			
TYCO Technology Resources Suite 450 4550 New Linden Hill Road			EXAMINER	
			BETTENDORF, JUSTIN P	
Wilmington, DE 19808-2952			ARTUNII	PAPER NUMBER
			2817	
		DATE MAILED, 02 24 2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

10/067,435 HEMPEL ET AL Office Action Summary Examiner Art Unit Justin P. Bettendorf 2817 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1 136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailting date of this communication If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely If NO period for reply is specified above, the maximum statutory period viill apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133) Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status Responsive to communication(s) filed on ___ 1) 2a) This action is FINAL. 2b) ☑ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) \boxtimes Claim(s) <u>1-12</u> is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1-12</u> is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. **Application Papers** 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a) 11) The proposed drawing correction filed on ____ is: a) approved b) disapproved by the Examiner If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) Interview Summary (PTO-413) Paper No(s) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3, 4 U.S. Patent and Trademark Office

Application No.

Applicant(s)

Application/Control Number: 10/067,435

Art Unit: 2817

DETAILED ACTION

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-12 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-15 of copending Application No. 10/067,605 and over claims 1-17 of copending Application No. 10/067,583. Although the conflicting claims are not identical, they are not patentably distinct from each other because the present application recites the same limitations of the conflicting claims, but the conflicting claims have additional limitations.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Application/Control Number: 10/067,435

Art Unit: 2817

4 Claims 1-3, 7-9 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Passaro United States Patent No. 3,339,158 (cited by the applicant).

The Passaro reference discloses in figure 1 cascaded junction circulator (including the method) comprising: signal ports 1-6; junctions shown formed of conductor patterns 21-27; ferrite components 31, 32; and permanent magnet 18 thereby forming a non-reciprocal device (i.e. circulator - see title and abstract). With respect to claims 7-9 and 12, figure 1 shows that air (i.e. dielectric medium) is between the two ferrites 31, 32 and the strip transmission lines form a microwave non-reciprocal structure including ground planes 13 and one not shown (col. 3, lines 1-23).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Application/Control Number: 10/067,435

Art Unit: 2817

7. Claims 4-6, 10, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Passaro.

As noted above, Passaro discloses a non-reciprocal cascaded circulator device with ferrites 31, 32, ground plates 13, and permanent magnet 18 but does not disclose various elements such as housing, pole pieces, and cover (and cover return).

Nevertheless, these elements are conventional in a circulator device and are required for proper environmental protection (e.g. housing, cover, cover return) and to shape the magnetic field (pole pieces).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time of the invention to have added conventional environmental protection members (housing, cover, cover return) and pole pieces to the circulator device of Passaro because such conventional elements are required for proper/enhanced operation of the device.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Fisher et al. United States Patent No. 5,172,080 discloses cascaded circulators with pole piece, cover, and housing.
 - b. Carr United States Patent No. 3,534,296 discloses cascaded circulators with a ferrite covering the junctions.
 - c. De Gruyl United States Patent No. 3,781,704 discloses cascaded circulators.

Application/Control Number: 10/067,435 Page 5 Art Unit: 2817 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin P. Bettendorf whose telephone number is (703) 308-2780 The examiner can normally be reached on 6:00-3:30 (M-F, 1st Friday off). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal can be reached on (703) 308-4909. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (793) 308-0956. Primary Examiner Art Unit 2817 jpb February 13, 2003